



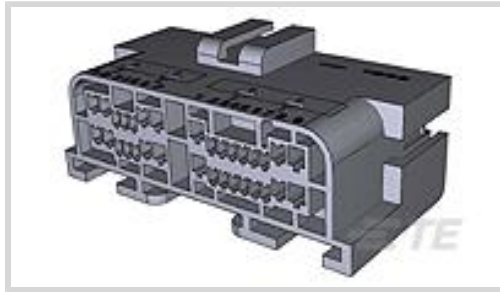
Multilock Connector System

TE Internal #: 178688-1

PCB Mount Header, Wire-to-Wire, 32 Position, 2.5 mm / 3.9 mm [.098 in / .153 in] Centerline, Fully Shrouded, Signal, White, Multilock Connector System

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > SIGNAL HEADER



Connector System: **Wire-to-Wire**

Number of Positions: **32**

Centerline (Pitch): **2.5 mm, 3.9 mm [.098 in, .153 in]**

Sealable: **No**

Number of Rows: **2**

[All SIGNAL HEADER \(413\)](#)

Features

Product Type Features

Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Header Type	Fully Shrouded
Connector System	Wire-to-Wire
Sealable	No

Configuration Features

Number of Sections	1
Number of Signal Positions	32
Number of Positions	32
Number of Rows	2

Body Features

Primary Product Color	White
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Contact Features

Contact Size	1.8mm, 1mm
Contact Type	Tab
Mating Tab Width	1 mm, 1.77 mm [.04 in][.07 in]



Mating Tab Thickness	.64 mm [.025 in]
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Mechanical Attachment

Mounting Holes	Without
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Mating Retention	With
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Mating Alignment	With
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PCB Mount Alignment	Without
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Panel Mount Feature	Without
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PCB Mount Retention	Without
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Mating Retention Type	Locking Interface
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Housing Features

Centerline (Pitch)	2.5 mm, 3.9 mm [.098 in] [.153 in]
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Dimensions

Connector Length	74.4 mm [2.92 in]
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Connector Width	37.05 mm [1.45 in]
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Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C [149 °F] [158 °F] [167 °F] [176 °F] [185 °F] [194 °F] [212 °F] [221 °F]
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Operating Temperature Range	-30 – 105 °C [-22 – 221 °F]
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Operation/Application

Shielded	No
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Circuit Application	Signal
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Packaging Features

Packaging Type	Box
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Packaging Quantity	16
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224)
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Candidate List Declared Against: JUN 2018
(191)

Does not contain REACH SVHC

Halogen Content

Not Low Halogen - contains Br or Cl > 900 ppm.

Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # CAT-M9194-T273
MULTILOCK, RECEPTACLE AND TAB



TE Part # CAT-M9194-CH8172
MULTILOCK, CONNECTOR HOUSING



TE Part # 175274-1
070 TAB (L) FOR NSCC



TE Part # 175271-3
040 TAB CIBTACT 22-18 GOLD

Also in the Series | Multilock Connector System




Automotive Connector Caps & Covers
(16)



Automotive Connector EMC Shielding
(1)



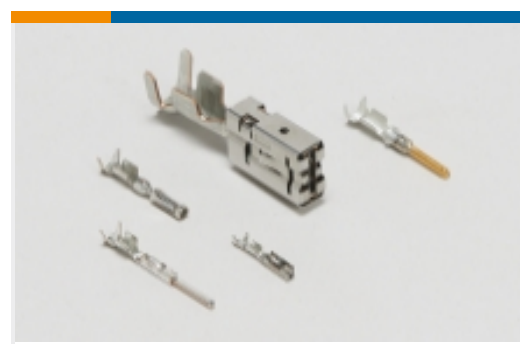
Automotive Connector Locks & Position Assurance
(2)



Automotive Housings(572)



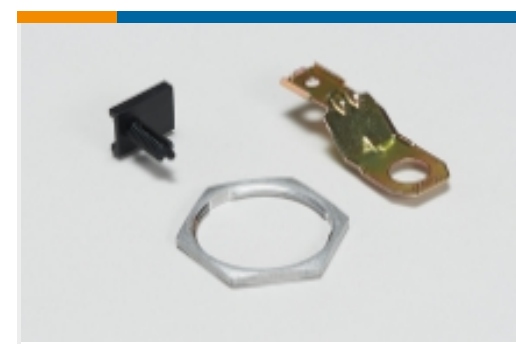
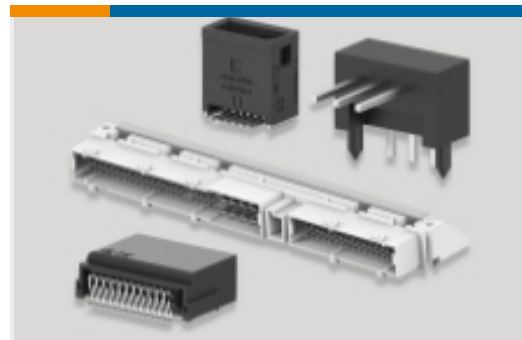
Automotive Seals & Cavity Plugs(2)



Automotive Terminals(140)



Insertion & Extraction Tools(6)

Other Automotive Connector
Accessories(9)

PCB Headers & Receptacles(127)

Documents

Product Drawings

32P NSCC CAP HSG ASSY

English

CAD Files

3D PDF

English

Customer View Model

[ENG_CVM_178688-1_C1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_178688-1_C1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_178688-1_C1.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

Product Specification

English

No title

English

No title

Japanese

Product Specification



Japanese

Instruction Sheets

040/070 II STEERING COLUMN CONNECTOR

English

Customer Manual (non U.S.)

English